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**Virtual machine monitors for scalable multiprocessors - group of 3 »**

E Bugnion, SW Devine, M Rosenblum - US Patent 6,075,938, 2000 - Google Patents

... a large implementation effort is solved by a unique type of **virtual machine monitor**. ...

Unfortunately, the operating system (OS) **soft**-ware for these machines has ...

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**Disco: running commodity operating systems on scalable multiprocessors - group of 75 »**

E Bugnion, S Devine, K Govil, M Rosenblum - ACM Transactions on Computer Systems (TOCS), 1997 - portal.acm.org

... the scalability of the system **soft**-ware, without ... The **virtual machine monitor** manages the page table and prevents the ... call used by the **device driver** to pass ...

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**The PDP-11 virtual machine architecture: A case study**

GJ Popek, CS Kline - Proceedings of the fifth ACM symposium on Operating systems ..., 1975 - portal.acm.org

... **device driver** software typically moves ... latter cases, the **virtual machine monitor** typically is run in privileged mode, and all other software in user mode. ...

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**[PS] VIRTUAL CLUSTERS: RESOURCE MANGEMENT ON LARGE SHARED-MEMORY MULTIPROCESSORS - group of 4 »**

K Govil - 2000 - www-flash.stanford.edu

... Clusters has shown that a **virtual machine monitor** can leverage existing operating system ... of these lines may be required only for **device driver** code, the base ...

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D KIM - 2001 - purl.fcla.edu

... This stealing approach resembles the slack stealer for scheduling **soft**- ... The SPIRIT-μKernel cyclic scheduler can be viewed as a **virtual machine monitor** that ...

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E Bugnion, SW Devine, M Rosenblum - US Patent 6,075,938, 2000 - Google Patents  
... The present invention uses a combination of innovative **emulation** of the ... Disco, a **virtual machine monitor**, is a software layer between a multiprocessor hardware ...  
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**Disco: running commodity operating systems on scalable multiprocessors - group of 75 »**

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... The **virtual machine monitor** manages the page table and prevents ... of the trap architecture,  
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**Method and apparatus for concurrent execution of operating systems - group of 4 »**

RL Solomon - US Patent 6,269,409, 2001 - Google Patents  
... 916 **DEVICE DRIVER** GETS DATA FROM SAL AND RETURNS ITTO 907 ... **emulation** of one environment  
or the other. ... as **virtual machine monitor** (VMM) 104 is employed to ...  
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**Examining VMware - group of 4 »**

J Nieh, OC Leonard - Dr. Dobb's Journal, 2000 - ncl.cs.columbia.edu  
... The **virtual-machine monitor** in Linux is implemented via ... hooks for hardware **emulation**,  
interrupt generation ... Students implemented a kernel **device driver**, dev/clock ...  
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CL Cong - 1999 - pdos.csail.mit.edu  
... control of an **emulator** or **virtual machine monitor**. The **emulator** or monitor in conjunction ... **monitor** or full **emulation** may be used. Numerous ...  
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**Operating System and Motor Control Software for a Soccer Playing Robot**

M Ford - University of Queensland Thesis, 1998 - innovexpo.itee.uq.edu.au  
... the microcontroller hardware through **device driver** functions. ... as the **virtual machine monitor**, runs on the hardware and does multi-programming by ...  
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... unit of partitioning. The SPIRIT-μKernel cyclic scheduler can be viewed  
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AF de Souza - 1999 - inf.ufes.br

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Edouard Bugnion, Scott Devine, Kinshuk Govil, Mendel Rosenblum

November 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 4

Publisher: ACM Press

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In this article we examine the problem of extending modern operating systems to run efficiently on large-scale shared-memory multiprocessors without a large implementation effort. Our approach brings back an idea popular in the 1970s: virtual machine monitors. We use virtual machines to run multiple commodity operating systems on a scalable multiprocessor. This solution addresses many of the challenges facing the system software for these machines. We demonstrate our approach with a prototy ...

**Keywords:** scalable multiprocessors, virtual machines2 [Cellular disco: resource management using virtual clusters on shared-memory multiprocessors](#)

Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum

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Despite the fact that large-scale shared-memory multiprocessors have been commercially available for several years, system software that fully utilizes all their features is still not available, mostly due to the complexity and cost of making the required changes to the operating system. A recently proposed approach, called Disco, substantially reduces this development cost by using a virtual machine monitor that leverages the existing operating system technology. In this paper we present a ...

**Keywords:** fault containment, resource management, scalable multiprocessors, virtual machines

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**Keywords:** fault containment, resource managment, scalable multiprocessors, virtual machines**3**Session summaries from the 17th symposium on operating systems principle



(SOSP'99)

Jay Lepreau, Eric Eide

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

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